
HOUSE RESOLUTION

URGING HAWAII ELECTRICAL UTILITIES TO ADOPT A POLICY FOR THE
FUTURE ELECTRICAL GRID TO SUPPORT THE USE OF MICRO-GRIDS
AND SELF-SUFFICIENT RESIDENTIAL SOLAR PHOTOVOLTAIC SYSTEMS.

1 WHEREAS, Hawaii has the highest electricity rates of all
2 states in the nation; and
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4 WHEREAS, Hawaii's high electrical rates are often
5 attributed to Hawaii's reliance on imported oil and a doomed and
6 obsolete electrical utilities business model that has not
7 changed in over a century; and
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9 WHEREAS, Hawaii electrical utilities still follow an
10 outdated business model requiring a central system operator to
11 manage the power supply with fluctuating customer demand while
12 maintaining the reliability of the power system; and
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14 WHEREAS, a micro-grid is a group of interconnected loads
15 and distributed energy resources within clearly defined
16 electrical boundaries that act as a single controllable entity
17 with respect to the grid and can connect to the grid to operate
18 in grid-connected mode and can disconnect from the grid to
19 operate in island mode; and
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21 WHEREAS, a self-sufficient residential solar photovoltaic
22 system is a photovoltaic system with a battery storage device to
23 store energy, but can also provide excess energy to the
24 electrical grid once the battery is at full capacity; and
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26 WHEREAS, the current electrical grid is analogous to the
27 mainframe computer half a century ago that handled all computer
28 processing while micro-grids are analogous to the modern
29 personal computer that handles individual processing at the
30 location where it is needed; and
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32 WHEREAS, developing an electrical grid compatible with
33 micro-grids and self-sufficient residential solar photovoltaic



H.R. NO. 51

1 systems is an important step for reducing both electricity rates
 2 and the State's dependence on imported oil; now, therefore,

3
 4 BE IT RESOLVED by the House of Representatives of the
 5 Twenty-eighth Legislature of the State of Hawaii, Regular
 6 Session of 2015, that all Hawaii electrical utilities are urged
 7 to adopt a policy for the future electrical grid to support the
 8 use of micro-grids and self-sufficient residential solar
 9 photovoltaic systems; and

10
 11 BE IT FURTHER RESOLVED that certified copies of this
 12 Resolution be transmitted to the President of Hawaiian Electric
 13 Industries, the President of Hawaiian Electric Company, the
 14 President of Kauai Island Utility Cooperative, and the
 15 Chairperson of the Public Utilities Commission.

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 18 OFFERED BY:

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